# TITLE 5 FIRE REGULATIONS

# CHAPTERS:

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# CHAPTER 5-01 FIRE LIMITS

#### SECTIONS:

5-01-001-0001	FIRE ZONE LIMITS ESTABLISHED:
5-01-001-0002	FIRE ZONE BUILDING RESTRICTIONS:
5-01-001-0003	FIRE PROTECTION; COUNTY ISLANDS:

#### SECTION 5-01-001-0001 FIRE ZONE LIMITS ESTABLISHED:

- A. Fire Zone No. 1: Those areas defined as Fire Zone 1 on the following map:

  Map deleted
- B. Fire Zone No. 2: All areas of the City zoned RM-M, C-1, C-2, C-3, C-4, I-1, I-2 and I-3.

Exception: In RM-M Zone, a single-family dwelling and duplex may be constructed to Fire Zone 3 standards.

C. Fire Zone No. 3: All areas of the City not included in Fire Zones No. 1 and 2.

#### SECTION 5-01-001-0002 FIRE ZONE BUILDING RESTRICTIONS:

- A. All restrictions defined in Chapter 16 of the Uniform Building Code, 1973 Edition, Volume 1, and as subsequently revised.
- B. All townhouse developments or residential units built in groupings of two (2) or more units, intended for sale as individual residential units shall be separated by a fire partition wall defined as follows:

Fire Partition shall mean an unpierced masonry wall at least eight inches (8") in thickness, or other noncombustible material or assembly of equal fire resistive rating. Said partition shall be built from the ground to the roof sheathing and shall conform and fit snugly to the sheathing. When a six (6) unit or four thousand five hundred (4,500) square foot building is constructed (not more than 3,000 square feet is allowable on second floor), a fire partition shall extend to thirty inches (30") above the roof line.

- C. All apartment buildings over three (3) units shall provide vertical two (2) hour separation between each unit. Horizontal separation between units may be one hour.
- D. In all apartment buildings, when a maximum of six (6) units or four thousand five hundred (4,500) square feet is exceeded, a fire partition shall be constructed. With a one bedroom or efficiency dwelling unit, the maximum may be increased to eight (8) units, but shall not exceed four thousand five hundred (4,500) square feet.
- E. No residential units or motel units shall be located within six hundred feet (600') of any aboveground bulk storage of liquefied gases or flammable liquids.

## Exception:

- 1. Mobile homes, trailers and construction storage sheds, temporary use--The following exceptions shall be permitted in Fire Zones No. 1 and 2 subject to a special permit approved by the Building and Fire Departments:
  - a. As a sales office for products sold from open land use on the property in connection with the mobile home sales, automobile sales and sales of a similar nature.
  - b. As a construction office use or construction storage shed while a new building is under construction on the same lot.
  - c. With a temporary use permit to do business by the owner or lessee during the time of construction of a new building on the same site.
- Travel trailer parks and facilities when developed in accordance with an ap proved conditional use permit.

(Ord. 1010, 5-3-77)

# SECTION 5-01-001-0003 FIRE PROTECTION; COUNTY ISLANDS; AND OTHER SELECTED UNINCORPORATED PROPERTY:

- A. The Flagstaff Fire Department is hereby authorized, but not required, to enter into service agreements for the following areas not in the boundaries of the City, as recommended by the Fire Chief and approved by the City Manager:
  - Property surrounded by the City but not within the boundaries, i.e., County islands; or,
  - Other unincorporated property as recommended by the Fire Chief and City Manager, and reviewed and approved by the City Council on a case-by-case basis. (Ord. 1765, 08/04/92; Ord. 2003-09, 05/20/03)
- B. The fire protection services described above shall be provided only on the following basis:
  - 1. A fire protection rate, beginning July 1, 2003, to be commensurate with the City of Flagstaff primary and secondary property tax rate plus 10 percent for the preceding fiscal year, per one hundred dollar (\$100.00) assessed value, as determined by the Coconino County Assessor.
    - a. The rate for fiscal year 2003-2004 will be \$1.8839 per \$100.00 of assessed value, based upon a primary rate of .7326, plus a secondary rate of .9801, plus ten percent (10%). In no event shall the fire protection assessment be less than one hundred dollars (\$100.00) per annum; or

- 2. An implied contract between the City and the property owner which provides for reimbursement to the City at an hourly rate based on the Fire Department's current operating and maintenance budget, divided by the number of alarms for the preceding calendar year. The City shall have the ability to: keep the existing rate in place when rate increases or decreases do not exceed ten percent (10%) and to round costs to the nearest whole number. A one-half hour minimum will be assessed for all but false alarms, which is based upon the average length of alarms occurring in the City.
  - a. The rate for fiscal year 2003-2004 will be \$2,440 per hour, which is based upon an Operating and Maintenance Budget of \$6,804,324 divided by 5,575 alarms (calendar year 2002), which equals 1,220 (rounded) multiplied by 2 (one-half hour average alarm duration).
  - b. This rate may be applied to other Fire Department costs, such as hazardous materials response or other auxiliary services.
- 3. Costs associated with additional firefighting units (other than the primary responding units) necessary to control or contain events may be charged in the same manner provided in Section 2. Extraordinary costs (costs greater than \$1,000.00), costs for equipment and supplies, and personnel costs necessary to maintain adequate City coverage may also be recovered on a cost basis.
- 4. In a collection action to recover the City's costs based upon the above-implied contract, the City is authorized to utilize all equitable and legal remedies including a lien upon the affected property as provided in the Arizona Revised Statutes. (Ord. 1447, 6-3-86)
- 5. There shall be no duty for the City of Flagstaff to respond to property in an unincorporated area not covered by a fire contract. However, if a threat exists to the City of Flagstaff or other contract properties; or if, when dispatched, the Fire Department is not certain of the status of the property, the Fire Department responders shall have the discretion to act in the interest of public safety.

(Ord. No. 1765, Amended, 08/04/92; Ord. No. 2003-09, 05/20/03)

# CHAPTER 5-02 FIRE PREVENTION CODE

#### SECTIONS:

5-02-001-0001	ADOPTION OF UNIFORM FIRE CODE:
5-02-001-0002	BUREAU OF FIRE PREVENTION; ESTABLISHMENT, DUTIES:
5-02-001-0003	ESTABLISHMENT OF LIMITS:
5-02-001-0004	LIMITS FOR STORAGE OF EXPLOSIVE AND BLASTING AGENTS:
5-02-001-0005	LIMITS FOR STORAGE OF LIQUEFIED PETROLEUM GAS:

## SECTION 5-02-001-0001 ADOPTION OF UNIFORM FIRE CODE:

There is hereby adopted by the City of Flagstaff for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion, that certain Code known as the Uniform Fire Code, including appendix chapters:

Appendix I-A	Life Safety Requirements for Existing Buildings Other Than High Rise.
Appendix I-B	Life-Safety Requirements for Existing High-Rise Buildings.
Appendix I-C	Stairway Identification.
Appendix II-A	Suppression and Control of Hazardous Fire Areas.
Appendix II-D	Rifle Ranges.
Appendix II-E	Hazardous Materials Management Plans and Hazardous Materials
	Inventory Statements.
Appendix II-F	Protected Above Ground Tanks for Motor Vehicle Fuel-
	Dispensing Stations Outside Buildings.
Appendix II-J	Storage of Flammable and Combustible Liquids in Tanks Located
	Within Below-Grade Vaults.
Appendix III-A	Fire-Flow Requirements for Buildings.
Appendix IV-B	Christmas Trees.
Appendix VI-A	Hazardous Materials Classifications.
Appendix VI-C	Emergency Relief Venting for Fire Exposure for Above Ground
	Tanks.

published by the International Fire Code Institute on March 1, 1997 as the 1997 edition thereof and the whole thereof, save and except such portions as are hereinafter deleted, modified or amended by subsequent sections of this Ordinance, three copies of which Code have been and are now filed in the Office of the Clerk of the City of Flagstaff, Arizona as public records, and the same is hereby adopted and incorporated as fully as if set out at length herein, and from the date on which this Ordinance shall take effect, the provisions thereof shall be controlling within the limits of the City of Flagstaff.

The 1997 edition of the Uniform Fire Code is hereby declared to be amended by the changes set forth below (See Ordinance No. 1883 and 2006). (Ord. 1883, 09/19/95) (Ord. No. 1698, Amended, 07/16/91; Ord. No. 1883, Amended, 09/19/95)

Amend Section 902.2.2.1 to read:

902.2.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096 mm) and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm).

Buildings hereafter constructed which exceed 20 feet in height shall be required to provide a 26-foot wide fire apparatus access road.

#### **EXCEPTION:**

- 1. Vertical clearance may be reduced, provided such reduction does not impair access by fire apparatus and approved signs are installed and maintained indicating the established vertical clearance when approved by the Chief.
- 2. When buildings exceed 20 feet in height and the installation of a 26 foot wide fire apparatus access road is impractical, a 230 foot wide access road with a sidewalk totaling 26 feet minimum may be allowed when, in the opinion of the Chief, fire fighting operations will not be impaired.

Amend Section 902.2.2.2 to read:

902.2.2.2 Surface. Fire apparatus access/egress roads shall be designed and maintained to support a minimum of 42,000 pounds gross vehicle weight and shall be provided with a surface so as to provide all-weather driving capabilities. Certification of roadway design, surface, and load bearing capabilities by a registered engineer is mandatory when required by the Chief. 67,000 pounds gross vehicle weight. Fire access shall be designed and built as a Type VI-B roadway per the City of Flagstaff Engineering Standards unless otherwise approved by the Chief. A maintenance agreement clearly showing the responsibility for roadway maintenance and snow plowing may be required by the Chief.

Amend Section 902.2.2.4 to read:

902.2.2.4 Dead Ends. Dead-end fire apparatus access roads in excess of 150 feet in length shall be provided with an open-type cul-de-sac turnaround a minimum of 80 feet in diameter. There shall be no parking in turnarounds which would impair turning of apparatus. When parking is desired, the proper design must be approved which will accommodate parking.

EXCEPTION: A cul-de-sac with an island may be allowed when constructed to the approved engineering standard and approved by the Chief.

Amend Section 902.2.2.6 to read:

902.2.2.6 Grade. The gradient for a fire apparatus access/egress road shall not exceed 10 percent on straight sections of roadway and 8 percent side slope on turnarounds and curves.

Amend Section 902 to add Section 902.2.4.3 to read:

902.2.4.3 Secondary Access. Approved secondary access/egress or looping shall be provided for all residential subdivisions and commercial developments when fire department access/egress roads exceed 1200 feet in length. Secondary access/egress shall be provided for all development which exceeds 50 units/lots.

Amend Section 902 to add Section 902.2.4.4 to read:

902.2.4.4 Modifications. When automatic fire sprinkler systems not otherwise required by this code are installed, the specifications of this section may be modified at the discretion of the Chief, when in his opinion, fire fighting operations will not be impaired.

Amend Section 901.4.4 to read:

901.4.4 Premises Identification. Only approved numbers shall be placed on all new and existing buildings in such a position as to be plainly visible and legible from the street or road fronting the property. Numbers shall contrast with their background. Minimum size numbers for one and two family residences shall be 4 inches in height. Minimum size numbers for commercial occupancies or building identification shall be 6 inches in height. Approved identification shall also be provided on the rear door(s) at any location where access into the building may be difficult to determine.

Amend Section 902.3.1 to read:

902.3.1 Required Access. Exterior doors and openings required by this code or the building code shall be maintained readily accessible for emergency access by the fire department. Exterior doors shall be supplied with an exterior handle.

Amend Section 903.2 to read:

903.2. Required Water Supply for Fire Protection. An approved water supply capable of supplying the required fire flow for fire protection shall be provided to all premises upon which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction. When any portion of the facility or building protected is in excess of 300 feet from a water supply on a public street, for commercial occupancies and 500 feet from a water supply for residential single family and duplex occupancies, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains capable of supplying the required fire flow shall be provided when required by the Chief.

When automatic fire sprinkler systems not otherwise required by this code are installed, the specifications of this section may be modified at the discretion of the Chief, when in his opinion, fire fighting operations will not be impaired.

Amend Section 903.3 to read:

903.3 Water Supply. Water supply may consist of reservoirs, pressure tanks, elevated tanks, water mains or other fixed systems capable of providing the required fire flow. In setting the requirements for fire flow, the Chief may be guided by the provision in Appendix III-A. Water supply for a major system component as described by the American Water Works Association must provide a continuous and uninterrupted supply of fire protection water through redundancy.

Fire mains in excess of 1,000 feet in length or which have more than 3 hydrants affixed shall be looped to a second source of water. All fire

mains hereafter constructed shall be a minimum of 8-inch diameter but in all cases shall be of sufficient size to adequately supply the required fire flow.

Amend Section 903.4.2 to read:

903.4.2 Required Installations. The location, number and type of fire hydrants connected to a water supply capable of delivering the required fire flow shall be provided on the public street or on the site of the premises or both to be protected as required and approved by the Chief. See Appendix III-B. Fire hydrants shall be accessible to the Fire Department apparatus by roads meeting the requirements of Section 902.2.

Required installations. The location, number and type of fire hydrants connected to a water supply capable of delivering the required fire flow shall be provided on the public street or on the site of the premises or both to be protected as required and approved by the Chief. See Appendix III-B. Fire hydrants shall be accessible to the Fire Department apparatus by roads meeting the requirements of 902.2.2.1.

Hydrants shall be spaced at intervals of 500 feet for single family residences and duplexes and 300 feet for all other occupancies. Hydrants shall be provided at an approved location near entrances to all commercial occupancies and residential subdivisions. Hydrants shall be provided within 50 100 feet of Fire Department connections to sprinkler and standpipe systems, or as approved by the chief.

Amend Section 9.102 213 to add:

LIMITS ESTABLISHED BY LAW are the limits established by the City of Flagstaff Land Development Code as may be amended from time to time.

Amend Section 1001.3

1001.3 Plans for Fire Alarm Systems. Complete plans and specifications for fire alarm systems shall be submitted for review and approval prior to system installation. Plan submittal shall also include a completed Fire Protection System Permit Application and all associated fees. Plans and specifications shall include, but not be limited to, a floor plan; location of all alarm-initiating and alarm-signaling devices; alarm control-and trouble-signaling equipment; annunciation; power connection; battery calculations; conductor type and sizes; voltage drop calculations; and manufacturer, model numbers and listing information for all equipment, devices and materials.

Amend Section 1003.2.1. to read:

1003.2.1 General. An automatic fire extinguishing system shall be installed in the occupancies and locations as set forth in Section 1003.2 and in commercial buildings greater than three stories in height.

Amend Section 1004.2 to read:

1004.2 Required Installations. Standpipe systems shall be provided as set forth in Table 1004-A and in commercial buildings greater than two stories in height.

Amend Section 1007.3.1 to read:

1007.3.1 Design Standards. Fire alarm systems, automatic fire detectors, emergency voice alarm communication systems and notification devices shall be designed, installed and maintained in accordance with U.F.C. Standards Nos. 10-2 and 10-3 and other nationally recognized standards. All wiring may shall be Class A, and designed and installed in such a manner that the failure of any single alarm actuating or alarm indicating device or a single break or ground in the system will not interfere with the normal operation of any other such devices. unless otherwise required by the Chief.

Amend Section 1102.2.1 to read:

1102.2.1 General. Free-standing noncommercial incinerators shall be prohibited not connected to buildings shall be in accordance with Section 1102.2 Incinerators shall be in accordance with other governing agencies regulating emissions. For other requirements and for other types of incinerators, see the Building and Mechanical codes.

Amend Section 1102.4.1 to read:

1102.4.1 General. Recreational fires shall be prohibited. shall be in accordance with section 1102.4.and shall require a permit.

Amend Section 1102.5.2.1 to read:

1102.5.2.1 Construction. Barbecue pits in outdoor locations shall be constructed of concrete or approved noncombustible materials and shall require a permit.

Amend Section 77.104. 7701.4 to read:

7701.4 Bond. Before a permit is issued to use explosive materials, the applicant shall file with the jurisdiction a corporate surety bond in the principal sum of \$1,000,000 or a public liability insurance policy for the same amount for the purpose of the payment of damages to persons or property which arise from, or are caused by, the conduct of an act authorized by the permit upon which a judicial judgment results. The Chief is authorized to specify a greater or lesser amount when, in the Chief's opinion, conditions at the location of use indicate a greater or lesser amount is required.

Amend Appendix II-J, Section 5. To read:

Section 5- Vault Construction

5.2. Materials. Vaults shall be constructed of noncombustible materials. Fire resistive members must support vault lids and any other structural support members within the vault shall be one-hour fire resistive.

Exception: When plans contain an engineered stamped certification, stating the lid or canopy is designed to remain self-supporting in the event of failure of any exposed members within the vault.

- 5.4 Arrangement. Each vault shall contain only one tank. Compartmentalized tanks are allowed and shall be considered as a single tank.
- 5.6 Access/Egress Ways. Each vault shall be accessible for access/egress by at least one two approved personnel access-ways with a minimum dimension of 30 inches (762 mm) 36 inches (914.4 mm) and with a permanently affixed nonferrous ladders. Access/egress ways shall be designed to be non-sparking. Each entry point shall be secured against unauthorized entry. Travel distance from any point inside a vault to an access/egress way shall not exceed 20 feet (6096 mm).

Amend Appendix II-J, Section 10. To read:

Section 10. Fire Suppression and Water-Supply System

10.2 Fire Protection. Each vault shall be provided with an approved automatic or manual means of applying a fire suppression agent to the interior of the vault. An approved pre-plumbed sprinkler system with deluge-type, foam sprinkler heads shall be provided for the vault. The fire department connection shall be at a location approved by the fire department. The underground line to the fire department connection shall be pitched to drain back to the vault or to an approved ball drip valve installed at the below ground elbow at the fire department connection. The fire department will inspect this installation prior to back fill.

Amend Appendix III-A, Section 5. to read:

Section 5. FIRE-FLOW REQUIREMENTS FOR BUILDINGS

5.1 One- and Two-Family Dwellings. The minimum fire flow and flow duration requirements for one- and two-family dwelling having a fire area which does not exceed 3,600 square feet (344.5 m2) shall be 1,000 gallons per minute 3785.4 L/min.). Fire flow and Flow duration for dwellings having a fire area in excess of 3,600 square feet (344.5 m2) shall not be less than that specified in Table No. A-III-A-1.

SECTION 4: APPEALS.

Whenever the Chief disapproves an application or refuses to grant a permit applied for, or when it is claimed that the provisions of the Code do not apply or that the true intent and meaning of the Code have been misconstrued or wrongly interpreted, the applicant may appeal the decision of the Chief to the Board of Appeals within thirty (30) days from the date of the decision appealed.

SECTION 5: PENALTIES.

- Any person who shall violate any provisions of this Code hereby Α. adopted or fail to comply therewith, or who shall violate or fail to comply with any order made thereunder, or who shall build in violation of any detailed statement of specifications or plans submitted and approved thereunder, or any certificate or permit issued thereunder, and from which no appeal has been taken, or who shall fail to comply with such an order as affirmed or modified by the Board of Appeals or by a court of competent jurisdiction, within the time fixed herein, shall for each and every such violation or noncompliance be guilty of a misdemeanor, punishable by a fine of not more than \$2,500.00 or by imprisonment for not more than six months, or by both such fine and imprisonment. The imposition of one penalty for any violation shall not excuse the violation or permit it to continue; and all such persons shall be required to correct or remedy such violations or defects within a reasonable time; and when not otherwise specified, each ten days that prohibited conditions are maintained shall constitute a separate offense.
- B. The application of the penalty under subparagraph (A) shall not be held to prevent the enforced removal of prohibited conditions.

# SECTION 6: SEVERABILITY OF PROVISIONS

The Mayor and City Council hereby declare that should any section, paragraph, sentence or word of this Ordinance or of the Uniform Fire Code or appendices hereby adopted be declared for any reason to be invalid, it is the intention of the Mayor and Council that it would have passed all other portions of this Ordinance independent of the elimination here from of any such portion as may be declared invalid.

# SECTION 7: REPEAL OF CONFLICTING PROVISIONS

All former ordinances or parts thereof conflicting or inconsistent with the provisions of this Ordinance or of the Code, Supplement or the local amendments adopted in Section 3 of this Ordinance hereby adopted are hereby repealed.

(Ord. 2006, Amended, 12/07/1999)

## SECTION 5-02-001-0002 BUREAU OF FIRE PREVENTION: ESTABLISHMENT, DUTIES:

- A. The Fire Prevention Code shall be enforced by the Bureau of Fire Prevention.
- B. The Fire Chief of the City shall be in charge of the Bureau of Fire Prevention, and he may detail such members of the Fire Department as inspectors as shall from time to time be necessary.
- C. A report of the Bureau of Fire Prevention shall be made annually and transmitted to the City Manager. It shall contain all proceedings under this Code with such statistics as the Chief of the Fire Department may wish to include therein and recommendations of amendments to the Code. (Ord. 683, 3-29-66)

## SECTION 5-02-001-0003 ESTABLISHMENT OF LIMITS:

- A. The limits referred to in section 79.501 of the Uniform Fire Code, 1985 Edition, in which storage of Class I flammable liquids in outside, aboveground tanks is prohibited are the City limits except in Industrial Zones, I-2 and I-3, or in I-2 Zones now occupied by nonconforming uses as to such storage.
- B. The limits referred to in section 79.501 of the Uniform Fire Code, 1985 Edition, in which storage of Class II and Class IIIA and IIIB combustible liquids in outside, aboveground tanks is prohibited are the City limits except in Industrial Zones, I-1, I-2 or I-3.
- C. The limits referred to in section 79.501 of the Uniform Fire Code, 1985 Edition, in which new bulk plants for Class I flammable liquids are prohibited are the City limits except in Industrial Zones I-2, I-3 or in I-1 Zones now occupied by nonconforming uses as to such storage.
- D. The limits referred to in section 79.501 of the Uniform Fire Code, 1985 Edition, in which new bulk plants for Class II, Class IIIA and Class B combustible liquids are prohibited are the City limits except in Industrial Zones I-1, I-2 or I-3.

#### SECTION 5-02-001-0004 LIMITS FOR STORAGE OF EXPLOSIVE AND BLASTING AGENTS:

The limits referred to in section 77.106(b) of the Uniform Fire Code, 1985 Edition, in which storage of explosive and blasting agents is prohibited are the City limits except in Industrial Zones I-2 or I-3; or in I-1 Zones now occupied by nonconforming uses as to such storage.

# SECTION 5-02-001-0005 LIMITS FOR STORAGE OF LIQUEFIED PETROLEUM GAS:

The limits referred to in section 82.105A of the Uniform Fire Code, 1985 Edition, in which bulk storage of liquefied petroleum gas is restricted are the City limits except in Industrial Zones I-2 or I-3; or in I-1 Zones now occupied by nonconforming uses as to such storage. (Ord. 1400, 11-19-85)

# CHAPTER 5-03 FIRE DEPARTMENT

## SECTIONS:

5-03-001-0001 ARSON INVESTIGATORS:

#### SECTION 5-03-001-0001 ARSON INVESTIGATORS:

- A. The Fire Chief of the City may designate members of the Fire Department as arson investigators pursuant to Arizona Revised Statutes section 9-500.01, who shall, while engaged in arson investigations in this State, possess and may exercise law enforcement powers of peace officers of this State.
- B. The primary duty of said arson investigators shall be the investigation, detection and apprehension of persons who have violated or are suspected of violating any provision of Arizona Revised Statutes, title 13, chapter 17, relating to crimes of arson.
- C. Any individual designated as an arson investigator shall have law enforcement training under the provisions of Arizona Revised Statutes, section 41-1822.
- D. This Section shall not be construed as granting any powers of peace officers of this State to arson investigators other than those powers necessary for the investigation, detection and apprehension of persons who have violated, or are suspected of violating any provision of Arizona Revised Statutes, title 13, chapter 17, relating to crimes of arson.

(Ord. 1233, 11-16-82)